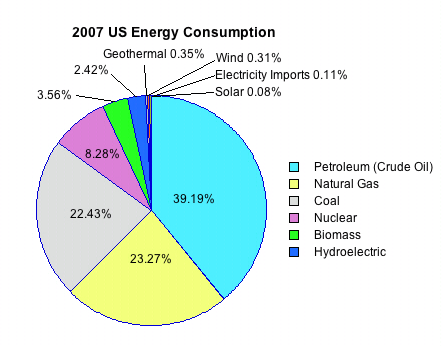
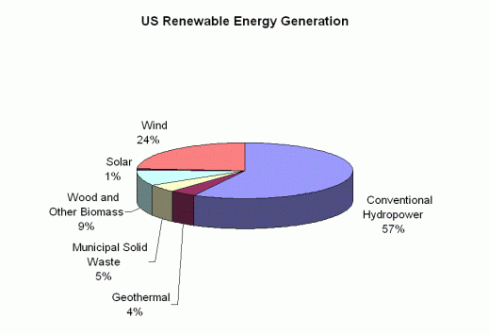
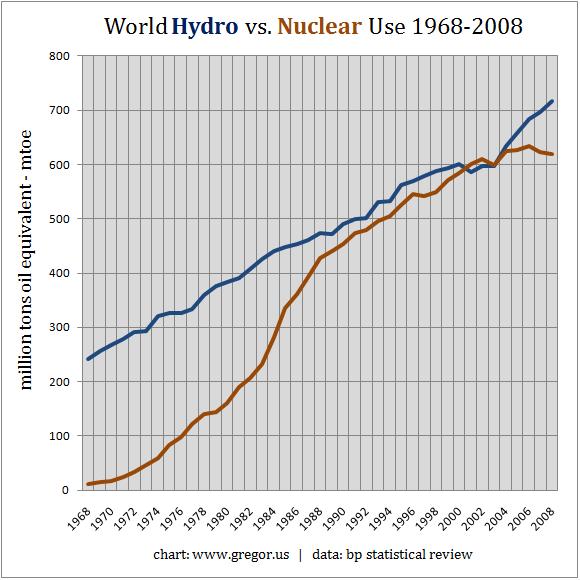
Important Charts and Diagrams



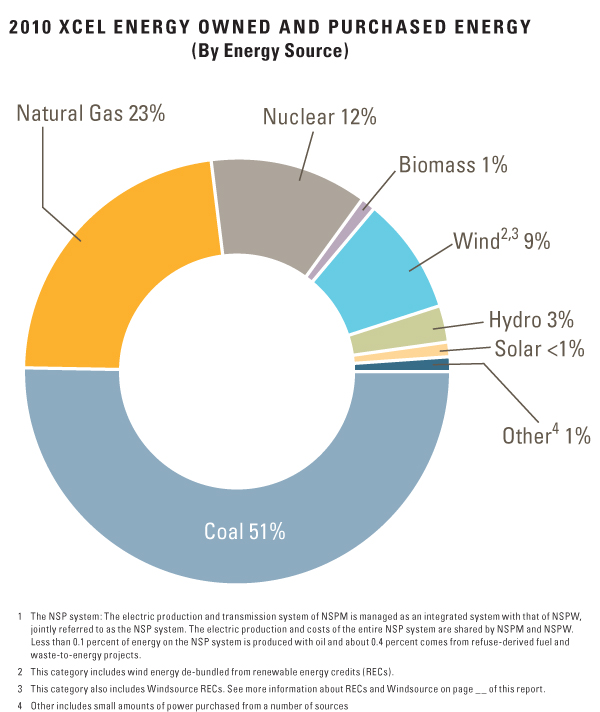




History

The history of water generated power goes back to B.C.E. or Before Christ Ere. Greeks used water to turn a wheel that grinded wheat and other materials. Now water generates electricity very simply. There are hydroelectric plants that can be small that use a river or huge that uses a dam such, as the Hoover Dam. Hydroelectric Power has improved massive amount over the last 2000 years ever since the Greeks used it. This type of energy is used in various parts of the country. As long as there is water available to be used.

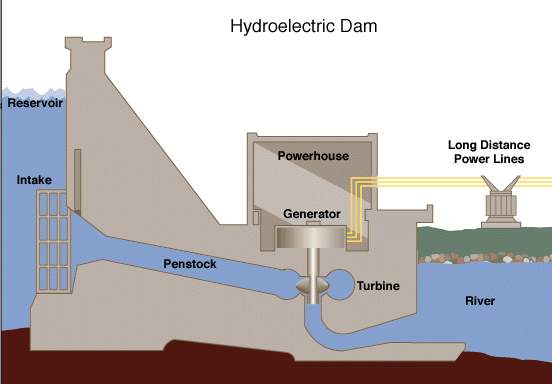
**Citations**

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**By: David Allen and Owen**

**Casey**

Advantages/Disadvantages

* Once the dam is built, the energy is virtually free.
* No waste or pollution produced.
* Much more reliable than wind, solar or wave power.
* Water can be stored above the dam ready to cope with peaks in demand.
* Hydro-electric power stations can increase to full power very quickly, unlike other power stations.
* Electricity can be generated constantly.
* The dams are very expensive to build.
* Building a large dam will flood a very large area upstream, causing problems for animals that used to live there.
* Finding a suitable site can be difficult - the impact on residents and the environment may be unacceptable.
* Water quality and quantity downstream can be affected, which can have an impact on plant life.

How It Generates Electricity

1. Water flows down incline.
2. The flowing water hits a turbine and turns it.
3. The turbine rotates and the shaft goes back and turns a generator.
4. The generator produces electricity when it rotates.

Other Applications

Since ancient times, hydropower has been used for irrigation and the operation of various mechanical devices, such as watermills, sawmills, textile mills, and many other things. Different types of hydropower have been used for centuries and will progress much more over the next couple of years. It will be used in an even more efficient way.